

**IN THE SPECIFICATION**

BACKGROUND OF THE INVENTION

[0001] The invention disclosed relates to a packaging and application device for a product, in particular a fluid product such as for example nail varnish remover.

[0002] Nail varnish remover products are for the most part packaged in bottles and require the use of a cotton wool swab for their application. Wipes impregnated with remover also exist which have the advantage of being more readily transportable. However, these two types of application have the major drawback that it is difficult to remove the varnish from a nail on one hand without damaging the varnish on the other nails of both hands, particularly the hand in which the cotton wool swab or wipe is being held. It often happens that the varnish on a single nail is damaged and it is needed to remove the varnish from this nail only without re-applying varnish to both hands. Similarly, when it is desired to remove the varnish from the toenails, the use of a cotton wool swab or wipe impregnated with remover removes the varnish from the nails of the hand holding the swab or wipe.

[0003] For this reason, the need has arisen for an applicator device for a nail varnish remover product which can be used to remove the varnish from a single nail if desired, without removing the varnish from the other nails.

[0004] In particular, the need has arisen for a device of the type which includes a receptacle containing the product and an applicator element capable of communicating with the product contained in the receptacle through a passage which can be opened or closed in response to the actuation of an intermediate element placed between the applicator and the receptacle.

[0005] Numerous application devices of this type have already been described for other types of products.

[0006] In particular, US 4,279,527 describes a device including a bottle onto which is screwed a collar integral with an applicator brush. When the collar is screwed to its maximum extent onto the bottle, the brush is isolated from the inside of the bottle by means of a centre-post which blanks off a communicating aperture between the bottle and brush. To use the device, the user unscrews the collar which moves the aperture away from the centre-post thereby providing sufficient clearance to allow the product to pass from the bottle to the brush. In this device, no closure cap is provided to cover the brush in the closed position so that the brush is not protected.

[0007] US 2,409,933 describes in one of the embodiments a bottle including an outlet aperture formed outside the longitudinal axis of the bottle, and which is surmounted by an applicator having an inlet aperture also formed outside the longitudinal axis of the bottle. A cap is provided to cover the applicator in the closed position. In the closed position, the two apertures

are offset in such a way that the product cannot reach the applicator. To place the applicator in communication with the product, the user removes the cap then turns the applicator so as to bring the two apertures into alignment with each other. To close the device, the user must first turn the applicator to place the two apertures in the offset position, then replace the cap. Two separate movements are thus necessary both to open and close the device.

**[0008]** In certain devices, the cap serving to protect the applicator is also used to close the passage allowing communication between the inside of the receptacle and the applicator. This is notably the case in the device described in US 3,106,742 wherein a screwing action applied to the closure cap causes the collar integral with the applicator to move downward. However, placement of the applicator in communication with the inside of the receptacle must be done by hand, i.e. the user must first unscrew the cap then pull on the collar in order to open up the passage between the inside of the receptacle and the applicator.

**[0009]** In other devices, opening of the cap causes the applicator to be placed in communication with the product contained in the receptacle. This is notably the case in the devices described in US 5,230,579 and US 3,281,887. In US 5,230,579, the cap is opened by means of a linear movement on the longitudinal axis of the device. When it is opened, the cap

causes the movement by friction of an intermediate part carrying the applicator and the clearance of a passage aperture allowing the applicator to communicate with the product contained inside the receptacle. To shut off communication between the applicator and the product inside the receptacle, the user can use the cap to cause the intermediate part carrying the applicator to move downward on the longitudinal axis. In US 3,281,887, the cap is screwed onto the receptacle, under a bellows formed in the neck of the receptacle. In this position, the bellows is compressed. When the cap is unscrewed, the bellows expands and a passage aperture is cleared enabling the applicator to communicate with the product inside the receptacle. When the cap is screwed back onto the receptacle, the bellows is compressed and the aperture recloses.

[0010] In these two devices, the applicator is placed in communication with the product inside the receptacle by causing a part carrying the applicator to move along the longitudinal axis of the receptacle. When the product is applied to an area to be treated, pressure is exerted on the applicator along this axis, so that the passage aperture tends to reclose as the product is being applied, which is not at all desirable.

[0011] Patent application FR 2 681 050 describes a device with a dispensing tip fitted with a cap in which screwing/unscrewing causes the tip to open/close. However, a dispensing tip of this kind is not suitable for the application

of a nail varnish remover to remove the varnish from one nail. Moreover, unscrewing the cap causes the cap to move to the open position due to the presence of bosses on the sidewall of the tip. A configuration of this kind does not allow the cap to be screwed back onto the bottle, when the tip is closed by hand, owing to the presence of the bosses.

[0012] One of the objects of the invention is to provide a packaging and application device for a fluid product which does not have the drawbacks of the prior art.

[0013] A particular object of the invention is to provide a device which enables nail varnish to be removed from one nail without damaging the varnish on the other nails.

[0014] A further object of the invention is to provide a device which is easy to use and which enables the product and applicator to be packaged in a manner such that the applicator is isolated from the product contained in the receptacle.

[0015] A further object of the invention is also to provide a device of this kind wherein the applicator element can be changed without risk of leakage of the product from the receptacle.

#### SUMMARY OF THE INVENTION

[0016] According to the present invention, these objects are achieved by providing a packaging application and ~~application~~ device for a product. ~~including:~~

~~— a) —~~ The packaging and application device includes a

receptacle ~~of having a longitudinal axis X in the passageway.~~

~~The receptacle is adapted for capable of containing the various products. The packaging application device further includes +~~

~~— b) a porous or fibrous applicator element capable of communicating with the product contained in the receptacle through a passage the passageway. +~~

~~— e) Aan dispensing element is located on the packaging device and is adapted for opening/ and closing the passage passageway. The dispensing element further including includes a mobile part, which may be rotatable rotated about a the longitudinal axis. The mobile part is capable of moving -X relative to the receptacle between a first position in which the passage passageway is closed and a second position in which the passage passageway is open. +~~

~~— d) The packaging device further includes a closure cap which is capable of being attachment by means of a screw thread onto the opening/closing to the dispensing element. In a preferred method, the closure cap contains threads which permits the closure cap to be screwed on to the dispensing so as to constitute an enclosed holder for the applicator element. +~~

~~— The closure a rotational movement of the cap constitutes a holder for the applicator element. Additionally, the closure cap is adapted so that rotational movement of the closure cap about the longitudinal axis X causes the being capable of opening and closing of the passage passageway.~~

[0017]     The mobile part of the dispensing element may be moved independently of the closure cap. The closure cap may be screwed onto the dispensing element irrespective of the position of the mobile part. The mobile part may further be mobile relative to the receptacle. Only in rotation about the longitudinal axis wherein the passageway is formed remote from the longitudinal axis. Additionally, rotational movement of the mobile part relative to the receptacle may be accompanied by a linier movement of the mobile part along the longitudinal axis.

~~A device of this kind of relatively elongated shape and comprising a porous or fibrous applicator element can be used to readily apply the product to one nail in order to remove the varnish without the fingers of the hand holding the device coming into contact with the product so that the nails on that hand are not spoiled. In addition, the applicator element can be used to increase the surface area which is applied to the area being treated and which contains the product, while at the same time limiting the flow of product from the receptacle, notably in the case where the product is highly fluid. It is thus possible to use an applicator element having an application surface area close to that of a nail in order to rapidly remove the varnish without an excessive quantity of product flowing onto the nail. Furthermore, the applicator element can also be used to remove the dissolved varnish by rubbing the applicator surface on the nail.~~

[0018] A second screw thread may be located on the dispensing element so that the mobile part may be moved relative to the receptacle by means of the second screw thread. The dispensing element may also include a fixed part having at least one wall with the passageway being closed off by engagement between the wall of the dispensing element and an opening being formed in the mobile part of the dispensing element. ~~Use of the cap to open and close the communicating passage renders the device easy to use, requiring only a single movement both to open and close the device. In addition, it allows the user to be sure that as soon as the cap is closed the applicator element is covered without being in communication with the product contained in the receptacle. This avoids having the applicator element continually soaked in the product.~~

[0019] The applicator element may be mounted on the packaging and applicator device in a removable or non-removable manner. Also, the holder may be adapted for obtaining an addition applicator element or even a plurality of applicator elements. The holder may be further modified in that it may be formed in the closure cap. ~~In addition, to close the passage, it is necessary to carry out a rotational movement such that simple pressure exerted on the applicator element along one axis, notably during application of the product, is not sufficient to close the passage. The applicator element can thus be kept~~



~~continuously supplied with product from the receptacle while the applicator element is being applied to the area to be treated.~~

**[0020]**     The applicator element may be a block of foam.

~~Advantageously, the mobile part of the opening/closing element is capable of moving independently of the cap. The passage can thus be closed to prevent the product from flowing out of the receptacle without the closure cap being replaced. This in particular allows the applicator element to be changed and replaced by a new one without risk of leakage of the product.~~

**[0021]**     The packaging applicator device may be used to facilitate the application of a product onto human nails.  
Additionally, the receptacle may include a deformable wall and/or contain a cosmetic product. The cosmetic product may be adapted for the removal of a beauty product from carotene material i.e., human nails. Additionally, the device may be adapted for the use of removal of nail varnish from human nails.  
~~Advantageously also, the cap is capable of being screwed onto the opening/closing element irrespective of the position of the mobile part of the opening/closing element. Thus, in the case where the passage has been closed by moving the opening/closing element to replace an applicator element, for example, it is not necessary to re-open the passage by moving the opening/closing element by hand so as to be able to screw the cap back on as is the case in the device described in patent application FR 2 681 050.~~

[0022] ~~According to one embodiment, the mobile part of the opening/closing element is mobile relative to the receptacle only in rotation about the axis X, the passage being formed outside the axis X.~~

[0023] ~~According to another embodiment, the rotational movement of the mobile part of the opening/closing element relative to the receptacle is accompanied by a linear movement along axis X. The mobile part of the opening/closing element can then be mobile relative to the receptacle by means of a screw thread.~~

[0024] ~~The passage can be closed off by the engagement of a surface, for example a centre-post, formed on a fixed part of the opening/closing element and an aperture formed in the mobile part of the opening/closing element.~~

[0025] ~~Advantageously, the applicator element is mounted on the device in a removable manner. It can, therefore, be replaced in the normal course of using the device, if it becomes soiled for example.~~

[0026] ~~The device can then comprise a holder containing at least a second applicator element, and preferably a stock of several applicator elements. The holder can be formed in the closure cap.~~

[0027] ~~The applicator element can be a block of foam, notably an open-cell foam. The foam can be a polyurethane (PU) foam, a nitrile-butadiene-rubber (NBR) foam, a styrene-butadiene-rubber~~

~~(SBR) foam or ethylene propylene diene monomer (EPDM) foam. The foam is advantageously flexible so as to facilitate removal of the varnish.~~

[0028] ~~The container can include a deformable wall. Thus, the product can be delivered to the applicator element by simple pressure exerted on the wall of the receptacle. Of course, when a highly fluid product is used, which is often the case with solvents, it can also flow from the inside of the container to the applicator element by gravity alone. The user can apply pressure on the deformable wall if she wishes to cause the product to flow more quickly. Alternatively, a rigid wall container can be used in which the product flows to the applicator element by gravity alone.~~

[0029] ~~The device is advantageously configured to facilitate the application of product onto the nails.~~

[0030] ~~The product contained in the receptacle can be a cosmetic product, notably a formulation for the removal of a beauty product from keratin material, in particular a nail varnish remover.~~

[0031] ~~The device according to the invention is particularly useful for the removal of nail varnish.~~

#### BRIEF DESCRIPTION OF THE DRAWINGS

[0032] Apart from the features described above, the invention includes a number of other arrangements which are described

below by way of non-limitative examples described with reference to the attached figures in which:

[0033]     ¶Figure 1 shows a perspective view of the packaging and application device according to the invention;

[0034]     ¶Figure 2 shows an exploded view of the device in figure 1;

[0035]     ¶Figure 3 shows a partial axial cross-section of the device in figure 1, in the closed position;

[0036]     ¶Figure 4 shows a partial axial cross-section of the device in figure 1, in the process of opening;

[0037]     ¶Figure 5 shows a partial axial cross-section of the device in figure 1, in the open position;

[0038]     ¶Figure 6 shows a top view along arrow 6 of the collar of the device in figure 2;

[0039]     ¶Figure 7 shows an axial cross-section of the applicator holder of the device illustrated in figure 1;

[0040]     ¶Figure 8 shows an axial cross-section of a variant of the device in figure 1;

[0041]     ¶Figure 9 shows a top view of the applicator holder of the device illustrated in figure 8, not containing an applicator;

[0042]     ¶Figure 10 shows an axial cross-section of a second embodiment of a device according to the invention, in the closed position; and

[0043] ¶Figure 11 shows an axial cross-section of the second embodiment of the device according to the invention, in the open position.

DETAILED DESCRIPTION

[0044] Throughout the description, the terms "above" and "upper position", "below" and "lower position" designate positions oriented respectively towards the top or bottom of the figures.

[0045] Figures 1 to 7 illustrate a packaging and application device 1 according to the invention. The device 1 includes a receptacle 10, an applicator 20 integral with the receptacle via a collar 30 and an applicator holder 40, together with a closure cap 50. The receptacle contains a fluid product, for example a nail varnish remover.

[0046] In the example illustrated, the receptacle 10 has an elongated shape along a longitudinal axis X, and includes a body formed by a side wall 11 and a bottom 12. The receptacle also includes a neck 14 centred on axis X and circular in transverse cross-section. The side wall 11 is elastically deformable and is connected to the neck 14 via a shoulder 13 which defines an annular flat surface. The neck 14 comprises three tabs 15 spaced at different angles and designed, as will be described in detail below, to hold the collar 30 on the receptacle. The receptacle 10 is, for example, made of plastic, for example polyethylene, and is obtained by moulding from a single piece.

**[0047]** The collar 30 is attached by a snap-on fixing to the neck 14 of the receptacle by means of a fixing skirt 31 cylindrical in shape. The fixing skirt 31 comprises three recesses 32 spaced at angles on the inner surface of the skirt, each designed to accommodate a tab 15 on the neck of the receptacle. The collar 30 is thus mounted on the receptacle without being capable of movement relative to the latter, either linearly along axis X or in rotation about axis X.

**[0048]** The fixing skirt 31 on the collar 30 is connected at its upper part, by means of an annular transverse wall 34, to a sealing skirt 35 concentric with the fixing skirt 31. The sealing skirt 35 includes a first portion 35a extending parallel to the axis X to a free lower edge. This skirt portion 35a is designed to be inserted into the neck 14 of the receptacle, bearing against the inner surface of the neck. The sealing skirt 35 includes a second portion 35b extending axially beyond the first portion, above the annular transverse wall 34, and which engages with the applicator holder 40, as will be seen in detail below.

**[0049]** A tapered centre-post 36 is formed on the axis X. The centre-post is connected to the sealing skirt 35 by three radial arms 37 spaced at angles and delineating, with the inner surface of the sealing skirt, apertures 38 enabling passage of the product. The centre-post 36 extends axially beyond the sealing skirt and terminates at an upper extremity 36a designed to fit

into an opening 45 in the applicator holder 40 so as to shut off communication between the applicator and the product contained inside the receptacle.

**[0050]** The fixing skirt 31 on the collar comprises on its outer surface two diametrically opposing tabs 33 designed to engage with a screw thread on the applicator holder 40 to allow the applicator holder to move relative to the collar and to place the applicator 20 in communication with the product contained inside the receptacle. The engagement of the collar with the applicator holder constitutes an element to open/close the passage allowing the applicator to communicate with the product contained inside the receptacle.

**[0051]** The applicator holder 40 is mounted on the collar by means of a fixing skirt 41 cylindrical in shape. The fixing skirt 41 comprises a first screw thread 42 on its inner surface which engages with the tabs 33 on the collar. This engagement allows the applicator holder to be screwed/unscrewed on the collar between a first position termed the lower position and a second position termed the upper position. The first screw thread 42 is interrupted in the lower part of the skirt 41 to form a stop 42a for the tabs 33 so as to prevent the applicator holder from becoming detached from the collar when unscrewed to the maximum extent, i.e. in the upper position of the applicator holder on the collar. When the applicator holder is in the lower

position on the collar, the screwing action is also limited as will be seen in detail below.

**[0052]** The fixing skirt 41 additionally includes a second screw thread 43 on its outer surface allowing attachment of the closure cap 50.

**[0053]** The fixing skirt 41 of the applicator holder extends at its upper part into a tapering wall 44 to an opening 45 formed on axis X opening out into a support 46 for the applicator 20. The applicator support 46 is formed by an annular transverse wall 46a terminating at its edge in a lateral wall 46b extending parallel to axis X to a free upper edge.

**[0054]** To prevent the product from flowing into the screw thread 42, provision is made for a sealing skirt 47 cylindrical in shape extending parallel to the axis X from the tapering wall to a free lower edge. This sealing skirt 47 is designed to form a contact seal with the upper portion 35b of the sealing skirt of the collar on which it slides axially when the applicator holder moves between its upper and lower positions. In the lower position, the sealing skirt 47 bears against the annular transverse wall 34 of the collar, thus limiting the downward travel of the applicator holder during the screwing action so as to prevent the fixing skirt 41 from moving past the shoulder 13 of the receptacle.

**[0055]** The applicator 20, mounted in the support 46, is shaped like a flat cylinder having a transverse cross-section



slightly larger than the transverse cross-section of the support 46 so that the side wall 46b holds it laterally whilst enabling it to be withdrawn axially when it needs to be changed. When the applicator is mounted in the support, it projects axially above the side wall 46b of the support. It consists of a block of open-cell foam, notably a relatively flexible polyurethane foam.

**[0056]** Advantageously, the applicator is mounted in its support in a removable manner so that it can be readily withdrawn intact from its support and replaced by a fresh applicator or by the same applicator after cleaning, for example.

**[0057]** With the device in the closed position, the applicator 20 is seated in an enclosed holder 51 delimited in part by the closure cap 50 designed to close the applicator. The cap 50 consists of a peripheral skirt 52, cylindrical in shape, closed at the top by a transverse wall 53. The inner surface of the skirt 52 comprises a screw thread 54 designed to engage with the screw thread 43 on the fixing skirt 41 of the applicator holder. The free lower edge of the skirt 52 bears against the shoulder 13 of the receptacle thereby preventing the applicator 20 from being compressed in the closed position by the transverse wall 53 of the cap in the event that the screw thread is tightened excessively.

**[0058]** So that screwing/unscrewing of the cap 50 causes screwing/unscrewing of the applicator holder 40, the force

exerted laterally by the cap 50 on the applicator holder 40 is greater than that exerted by the applicator holder 40 on the collar 30. To this end, the cap is fitted more tightly to the applicator holder than the applicator holder on the collar. Alternatively or additionally, appropriate materials are chosen to constitute the various parts, paying particular attention to the coefficient of friction or to the surface finish. Of course, the lateral force exerted by the cap on the applicator holder must still readily permit the screwing action.

**[0059]** In the closed position illustrated in figure 3, the cap 50 is screwed onto the applicator holder by the engagement of complementary screw threads 54 and 43 respectively comprised on the cap and applicator holder. The applicator holder 40 is in the lower position relative to the collar 30, i.e. the tabs 33 are located in the upper part of the screw thread 42. The upper extremity 36a of the centre-post 36 is seated in the opening 45 in the applicator holder so as to prevent any communication of the product contained in the receptacle with the applicator.

**[0060]** To open the device, the user rotates the cap 50 relative to the receptacle, which, in the first instance, unscrews the applicator holder and displaces the applicator holder axially relative to the collar as illustrated in figure 4. The applicator holder 40 is then in the upper position relative to the collar 30, i.e. the tabs 33 are situated in the lower part of the screw thread 42 and are brought to bear

against the extremity 42a of the thread. The opening 45 is then cleared to allow the product contained in the receptacle to communicate with the applicator.

**[0061]** The user then continues the unscrewing action, in this instance to unscrew the cap of the applicator holder so as to release the applicator, as illustrated in figure 5. The user is then able to place the applicator on a nail with the device positioned head downward, i.e. by placing the applicator below the receptacle so that the product flows by gravity into the applicator via the apertures 38 and the opening 45. If the user wants the product to flow more quickly into the applicator, she may exert light pressure on the side wall 11 of the receptacle thereby pushing the product towards the applicator 20. She may also use the device in a position with the head uppermost, pushing the product towards the applicator by pressing on the side wall 11 of the receptacle. Once the applicator is soaked with the product, the user can apply circular movements on the nail in order to remove the varnish. When the application is finished, the user places the cap 50 on the applicator holder 40 and rotates the cap relative to the receptacle 10, during which the applicator holder 40 is screwed back into the collar 30, until it is in its lower position and the cap is screwed back onto the applicator holder until it is brought to bear against the shoulder 13 of the receptacle.

**[0062]** When, after using the device to remove nail varnish, the user considers that the applicator is excessively soiled and needs to be replaced, she screws the applicator holder into the collar by hand, i.e. without the cap, so as to block the opening 45 by the centre-post 36. With no risk of leakage of the product, she can then easily withdraw the applicator from its support 46 and replace it with a fresh one. Alternatively, she can wash the applicator just removed and replace it in the support. The user can then screw the cap back onto the applicator holder which is in its lower position because the screw thread will permit this action.

**[0063]** Figures 8 and 9 illustrate a variant of the device described above with reference to figures 1 to 7 and which is used in the same manner.

**[0064]** According to this variant, receptacle 10 and the collar 30 are identical to the receptacle and collar in the first embodiment. The applicator holder 40 differs from the applicator holder in the first embodiment by the shape of the applicator support 46. The support 46 in this case is formed by a tapered wall 48 which tapers from the opening 45 towards the outside. The tapered wall 48 comprises three projections 49 which serve to hold the applicator 20 laterally whilst allowing it to be withdrawn axially when it needs to be changed. The applicator 20 in this case is wedge-shaped.

**[0065]** In this embodiment, the cap 50 defines a second holder 55 delimited by an axial extension 56 of the peripheral skirt 52, above the transverse wall 53, closed in a reversible manner at its upper part by a transverse wall 57 arranged to pivot on a film hinge 58. A latching arrangement 59, diametrically opposite the film hinge 58, is provided to latch the transverse wall 57 onto the extension 56 of the skirt so as to keep the second holder 55 closed. The second holder 55 can accommodate several applicators 20 which are designed to successively replace the applicator previously used.

**[0066]** The embodiment illustrated in figures 10 and 11 differs from the first embodiment illustrated in figures 1 to 7 principally in that the applicator holder 40 is mobile relative to the collar only in rotation about the axis X.

**[0067]** The screw thread on the inner surface of the fixing skirt 41 on the applicator holder is replaced by two grooves 143, diametrically opposed, in which the tabs 33 move. The two tabs 33 are in this case formed at different axial heights. The grooves 143 are also formed at different axial heights and each extend in a transverse plane relative to axis X, in an angular portion of approximately  $180^\circ$  thereby allowing the applicator holder to move through  $180^\circ$  relative to the collar 30. The opening 45 in the support 46 is in this case formed outside the axis X.

**[0068]** The centre-post of the collar is replaced by a transverse wall 136 formed from the axial extension of the sealing skirt 35, and which forms a contact seal with the transverse wall 46a of the support 46. The transverse wall 136 comprises an orifice 136a also formed outside the axis X. The orifice 136a is situated in the wall 136 in a manner such that the opening 45 in the applicator holder is aligned with the orifice 136a when the tabs 33 bear against one extremity of their respective groove.

**[0069]** In this embodiment, in the closed position illustrated in figure 10, the cap 50 is screwed onto the applicator holder and the wall 136 blocks the opening 45 to prevent any communication between the product contained in the receptacle and the applicator. The tabs 33 are each located at a first extremity of their respective groove.

**[0070]** To open the device, the user rotates the cap 50 relative to the receptacle, which in the first instance causes the tabs 33 to move in their respective groove 143 from the first extremity of the groove to the second extremity, as in this case also the force exerted laterally by the cap 50 on the applicator holder 40 is greater than the force exerted by the applicator holder 40 on the collar 30. The applicator holder thus moves through 180° relative to the collar so that the opening 45 in the applicator holder is aligned with the orifice

136a in the wall 136 thereby allowing the product contained in the receptacle to communicate with the applicator.

**[0071]** The user then continues the unscrewing action, in this instance unscrewing the cap from the applicator holder in order to release the applicator, as illustrated in figure 11.

**[0072]** In the foregoing detailed description, reference is made to preferred embodiments of the invention. It is evident that variants can be introduced thereto without departing from the spirit of the invention as claimed below.

**IN THE CLAIMS**

## CLAIMS:

1. (currently amended) —A packaging and application device ~~(1)~~for a product, ~~including the device comprising:~~

a) ~~a receptacle (10) having a of longitudinal axis and a passageway, X said receptacle adapted for capable of containing the product;~~

b) ~~a porous or fibrous applicator element (20) capable of communicating with the product contained in the said receptacle through a said passageway passage (45);~~

c) ~~an a dispensing element (30, 40) adapted for opening and closing to open/close the said passageway passage, said dispensing element including a mobile part (40), rotatable about said longitudinal the axis and movable, wherein said mobile part is capable of moving X relative to the receptacle between a first position in which the said passageway passage is closed and a second position in which the said passageway passage is open;~~  
and

d) ~~a closure cap (50) capable of attachment by means of a screw thread (54) onto the said opening/closing dispensing element, so as to constitute wherein said closure cap constitutes an enclosed holder (51) for the said applicator element, wherein~~

~~a rotational movement of the said closure cap about the said longitudinal axis causes the axis X being capable of opening and closing of said passageway the passage.~~

2. (currently amended) —~~The Device~~ device according to claim 1, wherein said characterised in that the mobile part (40) of the said dispensing opening/closing element is capable of moving independently of the said closure cap (50).



3. (currently amended) — ~~The Device~~ device according to claim 1, wherein said closure ~~any of the foregoing claims,~~ characterised in that the cap (50) is capable of being screwed onto ~~the said dispensing opening/closing element~~ irrespective of the position of ~~the said mobile part (40) of the opening/closing element.~~

4. (currently amended) — ~~The Device~~ device according to claim 1, wherein said ~~any of the foregoing claims,~~ characterised in that the mobile part (40) of the opening/closing element is mobile relative to ~~the said receptacle~~ in rotation only about said longitudinal the axis, wherein said passageway X and in that the passage is formed remote from outside the said longitudinal axis X.

5. (currently amended) — ~~The Device~~ device according to claim any of claims 1 to 3, wherein characterised in that the rotational movement of the said mobile part (40) of the opening/closing element relative to the said receptacle is accompanied by a linear movement of said mobile part along said longitudinal axis X.

6. (currently amended) — ~~The Device~~ device according to claim 5, further comprising a screw thread located on said dispensing element, wherein said ~~characterised in that the mobile part (40) of the opening/closing element~~ is mobile relative to ~~the said receptacle~~ by means of a said screw thread (42).

7. (currently amended) — ~~The Device~~ device according to claim ~~any one of the preceding claims,~~ wherein said dispensing element includes a fixed part having at least one wall, wherein said passageway ~~characterised in that the passage (45) is closed~~

off by engagement between asaid wall ~~(36a; 136)~~ ~~formed on the fixed part (30) of the said dispensing opening/closing element~~ and an opening ~~(45)~~ is formed in the said mobile part of the said dispensing opening/closing element.

8. (currently amended) — The Device ~~device~~ according to claim ~~any one of the preceding claims, wherein said characterised in that the applicator element (20) is mounted on the device in a removable manner.~~

9. (currently amended) — The Device ~~device~~ according to claim ~~any one of the preceding claims, further comprising a holder adapted for characterised in that it includes a holder (55) containing at least one second additional applicator element (20).~~

10. (currently amended) — The Device ~~device~~ according to claim ~~9, wherein said characterised in that this holder (55) contains a plurality of said stock of several applicator elements (20).~~

11. (currently amended) — The Device ~~device~~ according to claim ~~9 or 10, wherein said characterised in that the holder (55) is formed in the said closure cap (50).~~

12. (currently amended) — The Device ~~device~~ according to claim ~~1, wherein said any one of the preceding claims, characterised in that the applicator element (20) is a block of foam, notably an open-cell foam.~~

13. (currently amended) — The Device ~~device~~ according to claim ~~1, wherein the device any one of the preceding claims, characterised in that it is configured adapted to facilitate the application of a product onto the human nails.~~

14. (currently amended) — ~~The Device~~ device according to claim 1, wherein said any one of the preceding claims, characterised ~~in that the receptacle (10)~~ comprises a deformable wall ~~(11)~~.

15. (currently amended) — ~~The Device~~ device according to claim 1, wherein any one of the preceding claims, characterised ~~in that the product contained in the said receptacle (10)~~ contains ~~is a~~ cosmetic product.

16. (currently amended) — ~~The Device~~ device according to claim 15, wherein said cosmetic ~~characterised in that the product is adapted a formulation for the removal of a beauty product from keratin material, in particular a nail varnish remover.~~

17. (currently amended) — Use of a device according to claim 1 ~~any one of the preceding claims~~ for the removal of nail varnish.

REMARKS

The above-noted submission of a revised Abstract and revisions to the Specification, are respectfully submitted prior to initiation of the prosecution of this application in the U.S. Patent and Trademark Office.

Amendments to claims 1-17 are respectfully submitted. No new matter is included in these amendments. In addition, the revisions to the Abstract and Specification are submitted in order to clarify and correct the Abstract and Specification and to conform them to all of the requirements of U.S. practice. No new matter is included in these amendments.

In view of the above, it is respectfully requested that these amendments now be entered, and that prosecution on the merits of this application now be initiated. If, however, for any reason the Examiner does not believe such action can be taken, it is respectfully requested that the Examiner telephone applicant's attorney at (908) 654-5000 in order to overcome any objections which the Examiner may have.

If there are any additional charges in connection with this requested amendment, the Examiner is authorized to charge applicant's Deposit Account No. 12-1095 therefor.

Dated: February 19, 2004

Respectfully submitted,

By 

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